



# Software Diversification for WebAssembly

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## **Abstract**

**Keywords:** Lorem, Ipsum, Dolor, Sit, Amet

## Sammanfattning

# LIST OF PAPERS

1. ***WebAssembly Diversification for Malware Evasion***  
**Javier Cabrera-Arteaga**, Tim Toady, Martin Monperrus, Benoit Baudry  
*Computers & Security, Volume 131, 2023, 17 pages*  
<https://www.sciencedirect.com/science/article/pii/S0167404823002067>
2. ***Wasm-mutate: Fast and Effective Binary Diversification for WebAssembly***  
**Javier Cabrera-Arteaga**, Nicholas Fitzgerald, Martin Monperrus, Benoit Baudry  
*Under review, 17 pages*  
<https://arxiv.org/pdf/2309.07638.pdf>
3. ***Multi-Variant Execution at the Edge***  
**Javier Cabrera-Arteaga**, Pierre Laperdrix, Martin Monperrus, Benoit Baudry  
*Moving Target Defense (MTD 2022), 12 pages*  
<https://dl.acm.org/doi/abs/10.1145/3560828.3564007>
4. ***CROW: Code Diversification for WebAssembly***  
**Javier Cabrera-Arteaga**, Orestis Floros, Oscar Vera-Pérez, Benoit Baudry, Martin Monperrus  
*Measurements, Attacks, and Defenses for the Web (MADWeb 2021), 12 pages*  
<https://doi.org/10.14722/madweb.2021.23004>
5. ***Superoptimization of WebAssembly Bytecode***  
**Javier Cabrera-Arteaga**, Shrinish Donde, Jian Gu, Orestis Floros, Lucas Satabin, Benoit Baudry, Martin Monperrus  
*Conference Companion of the 4th International Conference on Art, Science, and Engineering of Programming (Programming 2021), MoreVMs, 4 pages*  
<https://doi.org/10.1145/3397537.3397567>
6. ***Scalable Comparison of JavaScript V8 Bytecode Traces***  
**Javier Cabrera-Arteaga**, Martin Monperrus, Benoit Baudry  
*11th ACM SIGPLAN International Workshop on Virtual Machines and Intermediate Languages (SPLASH 2019), 10 pages*  
<https://doi.org/10.1145/3358504.3361228>



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# Contents

<b>List of Papers</b>	<b>iii</b>
<b>Acknowledgement</b>	<b>v</b>
<b>Contents</b>	<b>1</b>
<b>I Thesis</b>	<b>3</b>
<b>1 Introduction</b>	<b>5</b>
1.1 Background . . . . .	5
1.2 Problem statement . . . . .	5
1.3 Automatic Software diversification requirements . . . . .	5
1.4 List of contributions . . . . .	5
1.5 Summary of research papers . . . . .	6
<b>2 Background and state of the art</b>	<b>9</b>
2.1 WebAssembly . . . . .	9
2.2 Software diversification . . . . .	19
<b>3 Automatic Software Diversification for WebAssembly</b>	<b>27</b>
3.1 CROW: Code Randomization of WebAssembly . . . . .	28
3.2 MEWE: Multi-variant Execution for WebAssembly . . . . .	33
3.3 WASM-MUTATE: Fast and Effective Binary for WebAssembly . . .	37
3.4 Comparing CROW, MEWE, and WASM-MUTATE . . . . .	42
<b>4 Exploiting Software Diversification for WebAssembly</b>	<b>47</b>
4.1 Offensive Diversification: Malware evasion . . . . .	47
4.2 Defensive Diversification: Speculative Side-channel protection . . .	55

4.3 Intrinsic properties of diversification. . . . .	61
<b>5 Conclusions and Future Work</b>	<b>65</b>
5.1 Summary of technical contributions . . . . .	65
5.2 Summary of empirical findings. . . . .	65
5.3 Future Work . . . . .	65
 <b>II Included papers</b>	 <b>67</b>
Superoptimization of WebAssembly Bytecode	<b>71</b>
CROW: Code Diversification for WebAssembly	<b>73</b>
Multi-Variant Execution at the Edge	<b>75</b>
WebAssembly Diversification for Malware Evasion	<b>77</b>
Wasm-mutate: Fast and Effective Binary Diversification for WebAssembly	<b>79</b>
Scalable Comparison of JavaScript V8 Bytecode Traces	<b>81</b>

Part I

Thesis

